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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION 1	
10/074,068	02/12/2002	Xuecheng Liang	1655-P3002-001	1655-P3002-001 6672	
23399 7	7590 10/21/2003		EXAMINER		
•	THINGTON, BARNES	YEE, DE	YEE, DEBORAH		
P O BOX 4390 TROY, MI 4			ART UNIT	PAPER NUMBER	
, .			1742		

DATE MAILED: 10/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

					A
		Application No.	Ap	plicant(s)	7
Office Action Summary		10/074,068	LIA	NG, XUECHENG	7
		Examiner	Art	Unit	
		Deborah Yee	174	12	0
Period fo	The MAILING DATE of this communication app	ears on the cover	sheet with the corre	spondence addres	SS
A SHO THE N - Exter after - If the - If NO - Failui - Any ro	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howen within the statutory min will apply and will expire so cause the application to	ver, may a reply be timely file imum of thirty (30) days will b SIX (6) MONTHS from the man become ABANDONED (35	ed the considered timely. ailing date of this commu U.S.C. § 133).	nication.
1)[Responsive to communication(s) filed on				
2a)□	This action is FINAL . 2b)⊠ Th	is action is non-fi	nal.		
3)□	Since this application is in condition for allowards closed in accordance with the practice under	•			erits is
•	on of Claims				
•	Claim(s) <u>1-15</u> is/are pending in the application		-A!		
	4a) Of the above claim(s) is/are withdrav	wn trom consider	ation.		
·	Claim(s) is/are allowed.				
·	Claim(s) <u>1-15</u> is/are rejected.				
·	Claim(s) is/are objected to.				
=	Claim(s) are subject to restriction and/or on Papers	r election require	nent.		
9) 🗌 -	The specification is objected to by the Examine	г.			
10) 🔲 -	The drawing(s) filed on is/are: a)□ accep	-	-		
	Applicant may not request that any objection to the				
11)[The proposed drawing correction filed on			by the Examiner.	
	If approved, corrected drawings are required in rep		ion.		
•	The oath or declaration is objected to by the Ex	aminer.			
	nder 35 U.S.C. §§ 119 and 120				
•	Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)-(d)	or (f).	
a)L	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority documents				
	2. Certified copies of the priority documents				
	 Copies of the certified copies of the prior application from the International Buree the attached detailed Office action for a list 	reau (PCT Rule 1	7.2(a)).	this National Sta	ge
	cknowledgment is made of a claim for domesti			a provisional and	olication).
a	The translation of the foreign language pro	visional application	on has been receive	d.	
Attachment	-		2.2.2. 33 .25 and	··	
1) D Notice 2) D Notice	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) 4	4) 5) 6)	Interview Summary (PTC Notice of Informal Paten Other:		

Application/Control Number: 10/074,068

Art Unit: 1742

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 to 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kataoka (US Patent 5,316,596), which was submitted by applicant in IDS filed April 15, 2002.

Kataoka in claim 2 of column 17 discloses a wear resistant iron alloy composition with constituents whose wt% ranges overlap those recited by the claims. The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to establish a prima facie case of obviousness, see In re Malagari, 182USPQ549 and MPEP 2144.05.

Also note example P in Table 3 of column 11 which meets the claimed composition except for 0.4% Si. Since applicant has not demonstrated criticality of the Si range, then a composition with 1% Si vs. a composition with slightly less (say 0.4%)Si would depict a mere difference in the proportion of element without any attendant unexpected results, which would not patentably distinguish claim over prior art. Moreover, Kataoka in lines 14 to 18 of column 3 discloses up to 1.5% Si would serve as a deoxidation agent to remove oxides. Moreover, even though example P is a

Art Unit: 1742

comparative example, it is still prior art because it has been published and known in the art.

Page 3

Even though prior art does not teach a valve insert as recited by claim 15, such would not be a patentable difference since using the insert for valve application is merely future and intended use.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 703-308-1102. The examiner can normally be reached on Monday-Friday from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 703-308-1146. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

dy